

APPENDIX M

MILLER RIVER WATERSHED

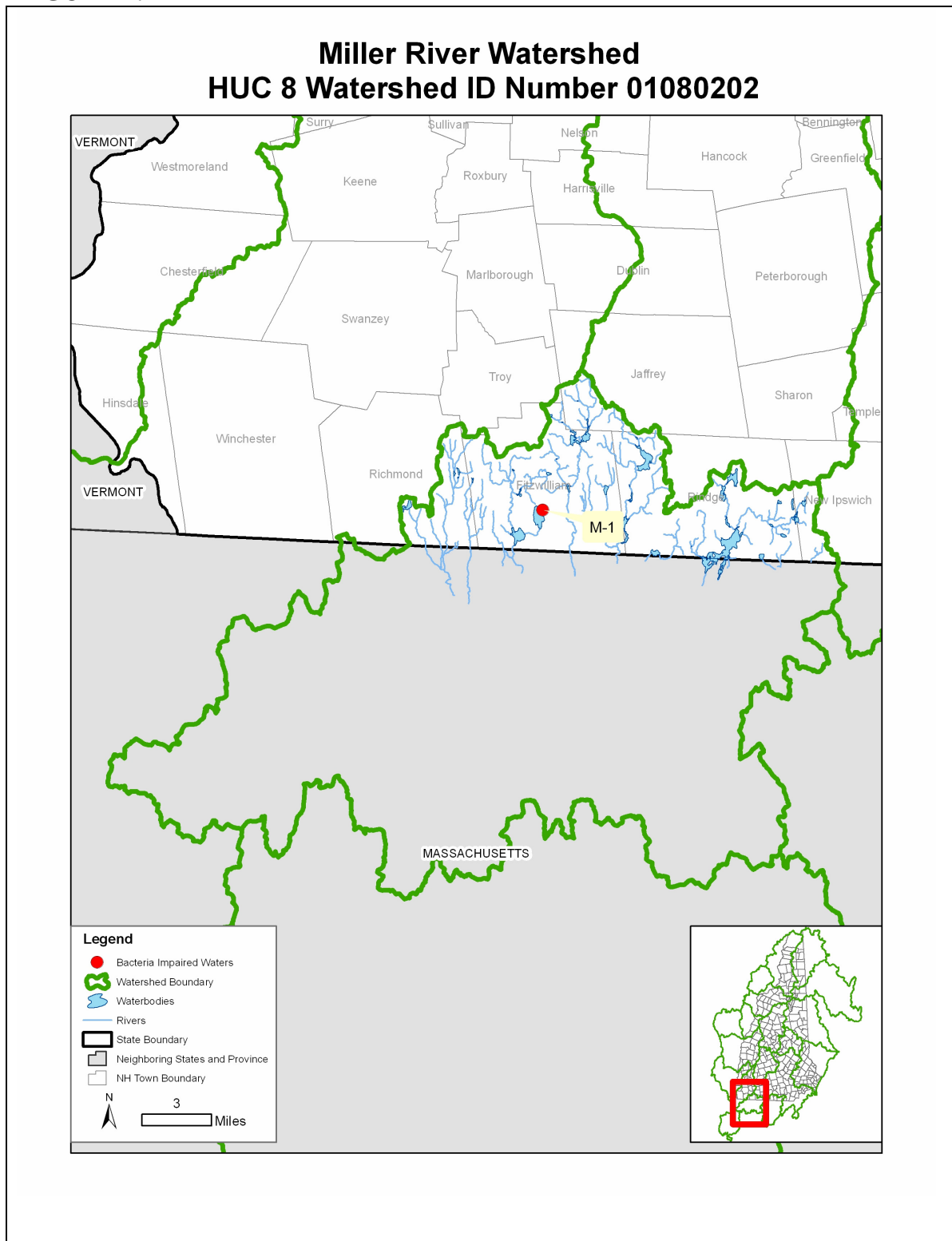
(HUC8: 01080202)

I. WATERSHED DESCRIPTION AND MAPS

This section of the Connecticut River Watershed straddles the borders of New Hampshire, Massachusetts and Vermont. The entire watershed covers an area of approximately 389 square miles, with approximately 79.5 square miles located in the southwest corner of New Hampshire. There are 6 New Hampshire towns located at least partially within the watershed which stretches from Goshen, NH to Gill, MA. As shown in Figure 1, the primary watercourse in the region is the Ashuelot River which flows southwest through Keene, NH before bending west to join the Connecticut River on the Vermont border in Hinsdale. Franconia Mountain Range is located in this watershed along with many independent mountains. Aquatic features in this watershed are Silver Lake, Surry Mountain Lake, and Ashuelot Pond.

Based on the 2012 303(d) list, one assessment unit (AU) in this watershed are listed as being impaired for bacteria. The location of the bacteria impaired surface water AUs are shown on Figure 1 as a red circle. Item M1 presents the percent reduction needed to meet each water quality criterion (and TMDL), based on the highest recorded bacteria measurement that exceeds the criterion for the AU, as well as the bacteria data collected in the impaired AUID that was used to list the AU as impaired on the 2012 303(d) list.

FIGURE 1:



II. WATER QUALITY DATA TABLES

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M1: Connecticut River – Millers River

AUID NHRIV802020202-07

Characteristics: freshwater, class B designation, primary contact recreation.

Impairment: *E coli*

Water Quality Criteria & TMDL for *E coli*

Single sample: 406 CTS/100ML

Geometric mean: 126 CTS/100mL

Percent reduction to meet TMDL:

Single sample: 80%

Geometric mean: complies

Data: NHDES EMD, 2012 303(d)

Single sample *E coli* results (CTS/100ML)

| Station Name | Station ID | Date | Result |
|---------------|------------|----------|--------|
| UNNAMED BROOK | LAUFITC2 | 06/19/06 | 5 |
| UNNAMED BROOK | LAUFITC2 | 07/24/06 | 60 |
| UNNAMED BROOK | LAUFITC2 | 06/25/07 | 10 |
| UNNAMED BROOK | LAUFITC2 | 06/19/08 | 70 |
| UNNAMED BROOK | LAUFITC2 | 08/18/08 | 20 |
| UNNAMED BROOK | LAUFITC2 | 06/09/09 | 30 |
| UNNAMED BROOK | LAUFITC2 | 06/23/11 | 730 |
| UNNAMED BROOK | LAUFITC3 | 06/19/06 | 10 |
| UNNAMED BROOK | LAUFITC3 | 07/24/06 | 20 |
| UNNAMED BROOK | LAUFITC3 | 06/25/07 | 10 |
| UNNAMED BROOK | LAUFITC3 | 06/19/08 | 40 |
| UNNAMED BROOK | LAUFITC3 | 08/18/08 | 30 |
| UNNAMED BROOK | LAUFITC3 | 06/09/09 | 40 |
| UNNAMED BROOK | LAUFITC3 | 07/19/10 | 110 |
| UNNAMED BROOK | LAUFITC3 | 06/23/11 | 1100 |
| UNNAMED BROOK | LAUFITC4 | 06/09/09 | 260 |
| UNNAMED BROOK | LAUFITC4 | 06/23/11 | 270 |
| UNNAMED BROOK | LAUFITK | 06/19/06 | 20 |
| UNNAMED BROOK | LAUFITK | 07/24/06 | 90 |
| UNNAMED BROOK | LAUFITK | 08/21/06 | 350 |
| UNNAMED BROOK | LAUFITK | 06/25/07 | 5 |
| UNNAMED BROOK | LAUFITK | 06/19/08 | 100 |
| UNNAMED BROOK | LAUFITK | 08/18/08 | 40 |
| UNNAMED BROOK | LAUFITK | 06/09/09 | 170 |
| UNNAMED BROOK | LAUFITK | 07/13/09 | 40 |
| UNNAMED BROOK | LAUFITK | 08/10/09 | 70 |
| UNNAMED BROOK | LAUFITK | 06/16/10 | 10 |
| UNNAMED BROOK | LAUFITK | 07/19/10 | 2000 |
| UNNAMED BROOK | LAUFITK | 06/23/11 | 650 |
| UNNAMED BROOK | LAUFITK | 08/23/11 | 70 |
| UNNAMED BROOK | LAUFITKL | 06/19/06 | 60 |
| UNNAMED BROOK | LAUFITKL | 08/21/06 | 790 |
| UNNAMED BROOK | LAUFITKL | 06/25/07 | 5 |
| UNNAMED BROOK | LAUFITKL | 06/19/08 | 80 |
| UNNAMED BROOK | LAUFITKL | 08/18/08 | 20 |
| UNNAMED BROOK | LAUFITKL | 06/09/09 | 160 |

| | | | |
|---------------|----------|----------|------|
| UNNAMED BROOK | LAUFITKL | 07/13/09 | 10 |
| UNNAMED BROOK | LAUFITKL | 08/10/09 | 30 |
| UNNAMED BROOK | LAUFITKL | 06/16/10 | 5 |
| UNNAMED BROOK | LAUFITKL | 07/19/10 | 810 |
| UNNAMED BROOK | LAUFITKL | 06/23/11 | 1100 |
| UNNAMED BROOK | LAUFITKL | 08/23/11 | 80 |

Shaded cells indicate exceedance of water quality criteria

Geometric mean *E. coli* results (CTS/100ML)

| Station Name | Date | Result |
|---------------------|-------------|---------------|
| UNNAMED BROOK | 7/24/06 | 25.21 |
| UNNAMED BROOK | 8/21/06 | 124.46 |
| UNNAMED BROOK | 8/18/08 | 42.55 |
| UNNAMED BROOK | 7/13/09 | 61.68 |
| UNNAMED BROOK | 8/10/09 | 30.27 |
| UNNAMED BROOK | 7/19/10 | 97.72 |